Human PEDF-R cDNA nucleotide sequence - SEQ ID NO:1 (R1)

:

1	ggcacgaggg	cggccccagt	cagacgcagg	cagccccaaa	gcctgaacag	gcagggccag
61	acccagcttc	ttcgcctccg	ccagcgggga	ccccgagcta	gagccgcagc	gggacctgcc
121	cggcccccgg	ctccagcgag	cgagcggcga	gcaggcggct	cacagaggcc	tggccgccca
181	cggaacccgg	ggcccggcgg	ccgccgccgc	gatgtttccc	cgcgagaaga	cgtggaacat
241	ctcgttcgcg	ggctgcggct	tcctcggcgt	ctactacgtc	ggcgtggcct	cctgcctccg
301	cgagcacgcg	cccttcctgg	tggccaacgc	cacgcacatc	tacggcgcct	cggccggggc
361	gctcacggcc	acggcgctgg	tcaccggggt	ctgcctgggt	gaggctggtg	ccaagttcat
421	tgaggtatct	aaagaggccc	ggaagcggtt	cctgggcccc	ctgcacccct	ccttcaacct
481	ggtaaagatc	atccgcagtt	tcctgctgaa	ggtcctgcct	gctgatagcc	atgagcatgc
	cagtgggcgc					
601	ccacttcaac	tccaaggacg	agctcatcca	ggccaatgtc	tgcagcggtt	tcatccccgt
661	gtactgtggg	ctcatccctc	cctccctcca	gggggtgcgc	tacgtggatg	gtggcatttc
	agacaacctg					
	gagtgacatc					
841	cagcatccag	ttcaacctgc	gcaacctcta	ccgcctctcc	aaggccctct	tcccgccgga
901	gcccctggtg	ctgcgagaga	tgtgcaagca	gggataccgg	gatggcctgc	gctttctgca
961	gcggaacggc	ctcctgaacc	ggcccaaccc	cttgctggcg	ttgccccccg	cccgccccca
1021	cggcccagag	gacaaggacc	aggcagtgga	gagcgcccaa	gcggaggatt	actcgcagct
1081	gccgggagaa	gatcacatcc	tggagcacct	gcccgcccgg	ctcaatgagg	ccctgctgga
1141	ggcctgcgtg	gagcccacgg	acctgctgac	caccctctcc	aacatgctgc	ctgtgcgtct
1201	ggccacggcc	atgatggtgc	cctacacgct	gccgctggag	agcgctctgt	ccttcaccat
	ccgcttgctg					
	gggcagcatc					
	ctccaggctg					
	gtcctgcgcc					
	ggacgcgctg					
	caacgtggcc					
1621	ccccgcggac	ccagcatccc	cgcagcacca	gctggccggg	cctgccccct	tgctgagcac
	ccctgctccc					
	cgaggaaccc					
	gttgccaaga					
	tgagagggga					
	taatcttccc					
1981	tgcagctgcc	cttccctccc	cgtttttcat	ggcctgctga	aatatgtgtg	tgaagaatta
	tttattttcg			gctgcagccc	aaaaaaaaa	aaaaaaaaa
	aaaaaaaaa					

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```
1 atgtttcccc gcgagaagac gtggaacatc tcgttcgcgg gctgcggctt cctcggcqtc
  61 tactacgtcg gcgtggcctc ctgcctccgc gagcacgcgc ccttcctggt ggccaacgcc
 121 acgcacatet acggcgcete ggccggggcg ctcacggcca cggcgctggt caccggggtc
 181 tgcctgggtg aggctggtgc caagttcatt gaggtatcta aagaggcccg gaagcggttc
 241 ctgggccccc tgcacccctc cttcaacctg gtaaagatca tccgcagttt cctgctgaag
 301 gtcctgcctg ctgatagcca tgagcatgcc agtgggcgcc tgggcatctc cctgacccgc
 361 gtgtcagacg gcgagaatgt cattatatcc cacttcaact ccaaggacga gctcatccag
 421 gccaatgtet gcagcggttt catccccgtg tactgtqqqc tcatccctcc ctccctccaq
 481 ggggtgcgct acgtggatgg tggcatttca gacaacctgc cactctatga gcttaagaac
 541 accatcacag tgtccccctt ctcgggcgag agtgacatct gtccqcaqqa cagctccacc
 601 aacatccacg agetgegggt caccaacacc ageatccagt tcaacctgcg caacctctac
 661 cgcctctcca aggccctctt cccgccggag cccctggtgc tgcgagagat gtgcaagcag
 721 ggataccggg atggcctgcg ctttctgcag cggaacggcc tcctgaaccq qcccaacccc
 781 ttgctggcgt tgcccccgc ccgccccac ggcccagagg acaaggacca ggcagtggag
 841 agcgcccaag cggaggatta ctcgcagctg ccgggagaag atcacatcct ggagcacctg
 901 cccgcccggc tcaatgaggc cctgctggag gcctgcgtgg agcccacgga cctgctgacc
 961 acceteteca acatgetgee tgtgegtetg gecaeggeea tgatggtgee etacaegetg
1021 ccgctggaga gcgctctgtc cttcaccatc cgcttgctgg agtggctgcc cgacgttccc
1081 gaggacatcc ggtggatgaa ggagcagacg ggcagcatct gccagtacct ggtgatgcgc
1141 gccaagagga agctgggcag gcacctgccc tccaggctgc cggagcaggt ggagctgcgc
1201 egegtecagt egetgeegte egtgeegetg teetgegeeg cetacagaga ggeactgeee
1261 ggctggatgc gcaacaacct ctcgctgggg gacgcgctgg ccaagtggga ggagtgccag
1321 cgccagetge tgctcggcct cttctgcace aacgtggcct tcccqcccqa agetctqcqc
1381 atgcgcgcac ccgccgaccc ggctcccgcc cccgcqgacc cagcatcccc gcagcaccag
·1441 ctggccgggc ctgccccctt gctgagcacc cctgctcccg aggcccggcc cgtgatcggg
1501 gccctggggc tgtga
```

Human PEDF-R polypeptide - SEQ ID NO:3 (R1 derived amino acid sequence)

```
l mfprektwni sfagcgflgv yyvgvasclr ehapflvana thiygasaga ltatalvtgv 61 clgeagakfi evskearkrf lgplhpsfnl vkiirsfllk vlpadsheha sgrlgisltr
 121 vsdgenviis hfnskdeliq anvcsgfipv ycglippslq gvryvdggis dnlplyelkn
 181 titvspfsge sdicpqdsst nihelrvtnt siqfnlrnly rlskalfppe plvlremckq
 241 gyrdglrflq rngllnrpnp llalpparph gpedkdqave saqaedysql pgedhilehl
 301 parlnealle acveptdllt tlsnmlpvrl atammvpytl plesalsfti rllewlpdvp
 361 edirwmkeqt gsicqylvmr akrklgrhlp srlpeqvelr rvqslpsvpl scaayrealp
 421 gwmrnnlslg dalakweecq rqlllglfct nvafppealr mrapadpapa padpaspqhq
 481 lagpapllst papearpvig algl
```

Human PEDF-R binding domain sequence - SEQ ID NO:4 (p12 nucleotide sequence):

```
1 cageggaacg gcctcctgaa ccggcccaac cccttgctqq cqttqcccc cqccqcccc
 61 cacggcccag aggacaagga ccaggcagtg gagagcgccc aagcggagga ttactcgcag
121 ctgccgggag aagatcacat cctggagcac ctgcccgccc ggctcaatga ggccctgctg
181 gaggeetgeg tggageeeae ggaeetgetg accaecetet ecaacatget geetgtgegt
241 ctggccacgg ccatgatggt gccctacacg ctgccgctgg agagcgctct gtccttcacc
301 atccgcttgc tggagtggct gcccgacgtt cccgaggaca tccggtggat gaaggagcag
361 acgggcagca tctgccagta cctggtgatg cgcgccaaga ggaa
```

Human PEDF-R binding domain - SEQ ID NO:5 (P12 amino acid sequence)

1 qrngllnrpn pllalpparp hgpedkdqav esaqaedysq lpqedhileh 51 lparlneall eacveptdll ttlsnmlpvr latammvpyt lplesalsft 101 irllewlpdv pedirwmkeg tgsicgylvm rakr

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Primer 1 for the construction of p12 – SEQ ID NO:6

Primer 1 (ccac atg + gene specific) 5'Cacc aTG CAG CGG AAC GGC CTC CTG AAC C 3'

Primer 2 for the construction of p12 – SEQ ID NO:7

Primer 2 (gene specific + stop codon) 5'Cta GTT CCT CTT GGC GCG CAT CAC C 3'

Primer 3 for the construction of p12 – SEQ ID NO:8

Primer 3 (gene specific)
5'GTT CCT CTT GGC GCG CAT CAC C 3'

Primer 11 for the construction of R1 expression vectors – SEQ ID NO: 9

Primer 11 (ccac atg + gene specific) 5'Ccac ATG TTT CCC CGC GAG AAG ACG 3'

Primer 12 for the construction of R1 expression vectors – SEQ ID NO: 10

Primer 12 (gene specific + stop codon) 5'ctA CAG CCC CAG GGC CCC GAT CAC G 3'

Primer 13 for the construction of R1 expression vectors – SEQ ID NO: 11

Primer 13 (gene specific) 5'CAG CCC CAG GGC CCC GAT CAC G 3'

Mouse PEDF-R cDNA sequence: - SEQ ID NO:12

1 ggagacccca aggtatcgag actgcgggac ccactgcccg caggacatcg agtcacgatq 61 ttcccgaggg agaccaagtg gaacatetca ttcgctggct gcggcttcct cggggtctac 121 cacattggcg tggcctcctg cctccgtgag cacgcgccct tcctggtggc caacgccact 181 cacatctacg gagcctcggc aggggcgctc accgccacag cgctggtcac tggggcctgc 241 ctgggtgaag caggtgccaa cattattgag gtgtccaagg aggcccggaa gcggttcctg 301 ggtcctctgc atccctcctt caacctggtg aagaccatcc gtggctgtct actaaagacc 361 etgeetgetg attgeeatga gegegeeaat ggaegeetgg geateteeet gaetegtgtt 421 tcagacggag agaacgtcat catatcccac tttagctcca aggatgagct catccaggcc 481 aatgtetgea geacatttat eeeggtgtae tgtggeetea tteeteetae eeteeaaggg 541 gtgcgctatg tggatggcgg catttcagac aacttgccac tttatgagct gaaqaatacc 601 atcacagtgt ccccattctc aggcgagagt gacatctgcc ctcaggacag ctccaccaac 661 atccacgage ttegegteac caacaccage atccagttea acettegeaa tetetacege 721 etetegaagg etetetteee geeagageee atggteetee gagagatgtg caaacaggge 781 tacaqaqatg gacttcqatt ccttagqaqq aatgqcctac tqaaccaacc caaccctttq 841 ctggcactgc ccccagttgt cccccaggaa gaggatgcag aggaagctgc tgtggtggag 901 gagagggetg gagaggagga tcaattgcag ccttatagaa aagatcgaat tctagagcac 961 etgeetgeea gaeteaatga ggeeetgetg gaggeetgtg tggaaccaaa ggaeetgatg 1021 accaccettt ccaacatget accagtgege etggeaacgg ccatgatggt geectatact 1081 etgeogetgg agagtgeagt gteetteace atcegettgt tggagtgget geetgatgte 1141 cctgaagata tccggtggat gaaagagcag acgggtagca tctgccagta tctggtgatg 1201 agggccaaga ggaaattggg tgaccatctg ccttccagac tgtctgagca ggtggaactg 1261 cgacgtgccc agtctctgcc ctctgtgcca ctgtcttgcg ccacctacag tgaggcccta 1321 cccaactggg tacgaaacaa cctctcactg ggggacgcgc tggccaagtg ggaagaatgc 1381 cagcgtcagc tactgctggg tctcttctgc accaatgtgg ccttcccgcc ggatgccttg 1441 cgcatgcgcg cacctgccag ccccactgcc gcagatcctg ccaccccaca ggatccacct 1501 ggcctccgc cttgctgaga atcaccattc ccacatcgcc cggctaccag ccaagctcca 1561 agttgtcctg ccccactaag aggagccccg gggtggaaca agatcctgtc tgccccggct 1621 ctcccctta catgctgtgg aatgaggaca taggaccctg cacagctgca agtgggcttt 1681 cgatgtgaaa cctttcacca gccactcact atgctactcc tggtggggag ggatggggag 1741 tegecetece eeggageeea eagageeete eeeegteaeg teacetgtge ettaeteetq 1801 cccaccact tttcagtgca gggtcagtct taagaactcc acatctgctq ctqctccctq 1861 gtgtccaagt ttccttgcag agtgtgtgaa gaattattta tttttgccaa agcagatcta 1921 ataaaagcca cagetcaget tetgeettee teaettetge atget

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Mouse PEDF-R coding sequence: - SEQ ID NO:13

61 taccacattggcgtggcctcctgcctccgtgagcacgcgcccttcctggtggccaacqcc 121 actcacatctacggagcctcggcaggggcgctcaccgccacaqcqctqqtcactqqqcc 181 tgcctgggtgaagcaggtgccaacattattgaggtgtccaaggaggcccggaagcggttc 241 ctgggtcctctgcatcctccttcaacctggtgaagaccatccgtggctgtctactaaag 301 accetgectgattgccatgagegegecaatggacqcetgqqcatetecetgactegt 361 gtttcagacggagagacgtcatcatatcccactttagctccaaggatgagctcatccag 421 gccaatgtctgcagcacatttatcccggtgtactgtggcctcattcctcctaccctccaa ggggtgcgctatgtggatggcggcatttcagacaacttgccactttatgagctgaagaat 481 541 accatcacagtgtccccattctcaggcgagagtgacatctgccctcaggacagctccacc 601 aacatccacgagcttcgcgtcaccaacaccagcatccaqttcaaccttcqcaatctctac cgcctctcgaaggctctcttcccgccagagcccatggtcctccgagagatgtgcaaacag 661 721 781 ttgctggcactgccccagttgtcccccaggaagaggatgcagaggaagctgctgtggtg 841 gaggaggggctggagaggaggatcaattgcagccttatagaaaagatcgaattctagag 901 cacctgcctgccagactcaatgaggccctgctggaggcctgtgtggaaccaaaggacctg 961 atgaccaccetttccaacatgctaccagtgcgcctggcaacggccatgatggtgccctat 1021 actctgccgctggagagtgcagtgtccttcaccatccgcttgttggagtggctgcctgat 1081 gtccctgaagatatccggtggatgaaagagcagacgggtagcatctgccagtatctggtg 1141 atgagggccaagaggaaattgggtgaccatctgccttccagactgtctgagcaggtggaa 1201 etgegacgtgcccagtctctgccctctgtgccactgtcttgcgccacctacagtgaggcc 1261 ctacccaactgggtacgaaacaacctctcactgggggacgcgctggccaagtgggaagaa 1321 tgccagcgtcagctactgctgggtctcttctgcaccaatgtqqccttcccgccggatgcc 1381 ttgcgcatgcgcgcacctgccagccccactgccgcagatcctgccaccccacaggatcca 1441 cctggcctcccgccttgctga

Mouse PEDF-R polypeptide: - SEQ ID NO:14

MFPRETKWNISFAGCGFLGVYHIGVASCLREHAPFLVANATHIYGASAGALTATALVTGACLGEAGANII EVSKEARKRFLGPLHPSFNLVKTIRGCLLKTLPADCHERANGRLGISLTRVSDGENVIISHFSSKDELIQ ANVCSTFIPVYCGLIPPTLQGVRYVDGGISDNLPLYELKNTITVSPFSGESDICPQDSSTNIHELRVTNT SIQFNLRNLYRLSKALFPPEPMVLREMCKQGYRDGLRFLRRNGLLNQPNPLLALPPVVPQEEDAEEAAVV EERAGEEDQLQPYRKDRILEHLPARLNEALLEACVEPKDLMTTLSNMLPVRLATAMMVPYTLPLESAVSF TIRLLEWLPDVPEDIRWMKEQTGSICQYLVMRAKRKLGDHLPSRLSEQVELRRAQSLPSVPLSCATYSEA LPNWVRNNLSLGDALAKWEECQRQLLLGLFCTNVAFPPDALRMRAPASPTAADPATPODPPGLPPC

Rat PEDF-R cDNA sequence: - SEQ ID NO:15

	-					
1	tcctctgcct	cccggcacag	cgtctccgcc	tccgccggcg	gggaccccag	gttatcaaga
61	ctgcgggacc	cactgcccgc	aggacgtcta	atcacgatgt	tcccaaggga	gaccaagtgg
121	aacatctcgt	tcgctggctg	cggcttcctc	ggggtctacc	acattggagt	ggcctcctgc
181	ctccgtgagc	acgcgccctt	cctggtggcc	aacgccactc	acatctacgg	agcctcggca
241	ggggcgctta	ccgccacagc	gctggtcact	ggggcctgcc	tgggcgaagc	gggtgccaac
301	attattgagg	tgtccaagga	ggctcggaag	cggttcctgg	gtcccctgca	cccctccttc
361	aacctggtaa	agaccatccg	tggttgtcta	ctgaagaccc	tgcctgctga	ttgccacacg
421	cgtgccagcg	gacgcctggg	catctccctg	actcgagttt	cggatggaga	gaatgtcatc
481	atatcgcact	ttagctccaa	ggatgagctt	atccaggcca	atgtttgcag	cacttttatc
541	cctgtgtact	gtggcctcat	tcctcctacc	cttcaagggg	tgcgctatgt	ggatggcggc
601	atttcagaca	acttgccact	ttatgagctg	aagaatacca	tcacagtgtc	cccattctca
661	ggcgagagtg	acatctgccc	acaagacagc	tccaccaaca	tccacgaact	tcgtatcacc
721	aacaccagca	tccaattcaa	cctgcgcaat	ctctaccgcc	tctcgaaggc	tctcttcccg
781	ccagagccca	tggttctccg	agagatgtgc	aaacagggct	accgagatgg	acttcgattc
841	cttaggagga	atggcctact	gaaccaaccc	aaccctttgc	tggcactgcc	cccggttgtc
901	ccccaggaag	aggatgcaga	ggaagctgcc	gtgactgagg	agaggactgg	aggggaggat
961	cggattctag	agcacctgcc	tgccagactc	aacgaggccc	tgctggaggc	ctgtgtggaa
1021	ccgaaagacc	tgatgaccac	cctttccaac	atgctgccag	tgcgcctggc	cactgccatg
1081	atggtaccct	atactctgcc	actggagagc	gcagtgtcct	tcaccatccg	tttgttggag
1141	tggctgcctg	atgtccctga	ggatatccgg	tggatgaagg	agcagacagg	tagcatctgc
1201	cagtatctgg	tgatgagggc	caagaggaaa	ttgggtgacc	atctaccttc	cagactgtct
1261	gagcaggtgg	agctgcggcg	tgcccagtct	ctgccgtctg	tgccactgtc	ttgcgccacc
1321	tacagtgagg	cactgcccaa	ctgggtacga	aacaacctct	cactggggga	cgcgctggcc
1381	aagtgggaag	aatgccagcg	tcagctactg	ctgggtctct	tctgcaccaa	tgtggccttc
1441	ccgcctgatg	ccttgcgcat	gcgcgcacct	gccagcccca	ccgccacaga	tcctgccacc
1501	ccacaggato	catctggcct	cccaccttgc	tga		
	-					

Rat PEDF-R coding sequence: - SEQ ID NO:16

taccacattggagtggcctcctgcctccgtgagcacgcgcccttcctggtggccaacgcc 61 actcacatctacggagcctcggcagggggcgcttaccgccacagcgctggtcactggqqcc 121 tgcctgggcgaagcgggtgccaacattattgaggtgtccaaggaggctcggaagcggttc 181 ctgggtcccctgcacccctccttcaacctggtaaagaccatccgtggttgtctactgaag 241 accetgeetgetgattgeeacaegegtgeeageggaegeetgggeateteeetgaetega 301 gtttcggatggagaatgtcatcatatcgcactttagctccaaggatgagcttatccag 361 gccaatgtttgcagcacttttatccctgtgtactgtggcctcattcctcctacccttcaa 421 ggggtgcgctatgtggatggcggcatttcagacaacttgccactttatgagctgaagaat 481 accatcacagtgtccccattctcaggcgagagtgacatctgcccacaagacagctccacc 541 aacatccacgaacttcgtatcaccaacaccagcatccaattcaacctgcgcaatctctac 601 cgcctctcgaaqqctctcttcccgccagagcccatggttctccgagagatgtgcaaacag 661 721 ttgctggcactgccccqqttqtcccccaggaagaggatgcagaggaagctgccgtgact 781 qaqqaqqactqqagqqqqqqtcqqattctaqaqcacctqcctqccaqactcaacqaq 841 gccctgctggaggcctgtgtggaaccgaaagacctgatgaccaccctttccaacatgctg 901 ccagtgcgcctggccactgccatgatggtaccctatactctgccactggagagcgcagtg 961 tccttcaccatccgtttgttggagtggctgcctgatgtccctgaggatatccggtggatg 1021 aaggagcagacaggtagcatctgccagtatctggtgatgagggccaagaggaaattgggt 1081 gaccatctaccttccagactgtctgagcaggtggagctgcgggggtgcccagtctctgccg 1141 tctgtgccactgtcttgcgccacctacagtgaggcactgcccaactgggtacgaaacaac 1201 $\verb|ctctcactgggggacgcgctggccaagtgggaagaatgccagcgtcagctactgctgggt|$ 1261 ctcttctgcaccaatgtggccttcccgcctgatgccttgcgcatgcgcacctgccagc 1321 cccaccgccacagatcctgccaccccacaggatccatctggcctcccaccttgctga 1381

MFPRETKWNISFAGCGFLGVYHIGVASCLREHAPFLVANATHIYGASAGALTATALVTGACLGEAGANII EVSKEARKRFLGPLHPSFNLVKTIRGCLLKTLPADCHTRASGRLGISLTRVSDGENVIISHFSSKDELIQ ANVCSTFIPVYCGLIPPTLQGVRYVDGGISDNLPLYELKNTITVSPFSGESDICPQDSSTNIHELRITNT SIQFNLRNLYRLSKALFPPEPMVLREMCKQGYRDGLRFLRRNGLLNQPNPLLALPPVVPQEEDAEEAAVT EERTGGEDRILEHLPARLNEALLEACVEPKDLMTTLSNMLPVRLATAMMVPYTLPLESAVSFTIRLLEWL PDVPEDIRWMKEQTGSICQYLVMRAKRKLGDHLPSRLSEQVELRRAQSLPSVPLSCATYSEALPNWVRNN LSLGDALAKWEECQRQLLLGLFCTNVAFPPDALRMRAPASPTATDPATPQDPSGLPPC

RT-PCR Primer for human PEDF-R - In2F - SEQ ID NO: 18

5' gcagtttcctgctgaaggtc '3

RT-PCR Primer for human PEDF-R - In2R - SEQ ID NO: 19

5' gctcgtccttggagttgaag '3

Primer for construction of rat PEDF-R - rIn2F - SEQ ID NO: 20

5' tgtggcctcattcctcctac '3

Primer for construction of rat PEDF-R - rIn2R - SEQ ID NO: 21

5' tgagaátggggacactgtga '3

Primer for construction of mouse PEDF-R – mIn2F - SEQ ID NO: 22

5' tatccggtggatgaaagagc '3

Primer for construction of mouse PEDF-R - rIn2R - SEQ ID NO: 23

5' cagttccacctgctcagaca '3